Patent claims

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1. Speech processing system
- having several speech recognition modules (Ei, i=1..n) and/or several speech output modules (Aj, j=1..m) that are respectively constructed specifically for a particular type of speech recognition and/or speech output, and
- having a means (MA) for selecting at least one speech recognition module (Ei) and/or speech output module (Aj) for a speech recognition and/or speech output to be carried out later, dependent on an input signal (ES) with which it is described what type of speech recognition and/or speech output is further required.

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2. Speech processing system according to claim 1, in which the means (MA) for selecting the speech recognition module (Ei) and/or the speech output module (Aj) is constructed in such a way that the speech recognition module (Ei) and/or the speech output module (Aj) is controlled by the means (MA).

3. Speech processing system according to claim 1 or 2, in which parts of the speech recognition module (Ei) and/or of the speech output module (Aj) that are used in common are realized in at least one pre-processing module (VV) and/or in at least one post-processing module.

4. Speech processing system according to claim 3, in which several speech recognition modules (Ei) and/or speech output modules (Aj) use common resources.

5. Speech processing system according to one of claims 1 to 4, in which a dialog sequence control (DA) is provided with which a dialog of the speech processing system with a user (B) of the speech processing system is realized.

6. Speech processing system according to one of claims 1 to 5,
in which the input signal (ES) is produced by the dialog sequence control (DA).

7. Speech processing system according to one of claims 1 to 6,
- in which the speech recognition module (Ei) is constructed at least for the execution of one of the following types of speech recognition:
-- Individual numeral recognition,
-- Recognition of chains of numerals,
-- Recognition of words from a limited vocabulary,
-- Recognition of an individual word with an unlimited vocabulary,
-- Recognition of speech spoken in a flowing manner with an unlimited vocabulary,
-- Recognition of predetermined word combinations,
-- Keyword recognition,
-- Alphabet recognition,
-- Sound sequence recognition,
-- Speech recognition,
-- DTMF recognition,
and/or

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- in which the speech output module (Aj) is constructed at least for the execution of one of the following types of speech output:
-- Output of predetermined stored speech stores,
-- Output of combined individual predetermined stored speech stores,
-- Output of words synthesized from stored phonemes,
-- Output of DTMF tones.

8. Method for speech processing,
- in which an input signal (ES) is analyzed (401), with which signal it is described what type of speech recognition and/or speech output is further required,
- in which, dependent on the input signal (ES), from a set of several speech recognition modules (Ei, i = 1..n) and/or speech output modules (Aj, j = 1..m), specifically constructed respectively for a particular type of speech recognition and/or speech output, at least one speech recognition module (Ei) and/or at least one speech output module (Aj) is activated (402), and
- in which the respective type of speech recognition and/or speech output is executed with the selected speech recognition module and/or speech output module (403).

9. Method according to claim 8,
in which a pre-processing (VV) of the speech signal to be recognized takes place before the speech recognition.

10. Method according to claim 8 or 9,
in which after the speech recognition a post-processing of the recognized speech signal takes place.

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